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10/047,984	01/17/2002	Gernot von Haas	017399-0202	3228
22428	7590	04/05/2006	EXAMINER	
<b>FOLEY AND LARDNER LLP</b> SUITE 500 3000 K STREET NW WASHINGTON, DC 20007				HUSON, MONICA ANNE
		ART UNIT		PAPER NUMBER
		1732		

DATE MAILED: 04/05/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/047,984	VON HAAS, GERNOT
	Examiner Monica A. Huson	Art Unit 1732

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 22 March 2006.  
 2a) This action is **FINAL**.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-7 and 17-43 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-7 and 17-43 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 17 January 2002 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 032206.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

## DETAILED ACTION

This office action is in response to the Amendment filed 22 March 2006.

The Declaration under 37 CFR 1.132 filed 22 March 2006 is sufficient to overcome the rejection of claims 1-7 based upon Bielfeldt and Beck, Jr.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 4, 6, 7, 19-23, 26, 31-36, and 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bielfeldt (U.S. Patent 5,538,676), in view of Luke et al. (U.S. Patent 3,915,075), further in view of Reiniger (U.S. Patent 4,933,125). Regarding Claim 1, Bielfeldt shows that it is known to carry out a method for the continuous manufacture of wood material boards having a textured surface on at least one side (Abstract), comprising forming a particle mat of a wood, treated with a binding agent, onto a continuously moving conveyor belt (Figure 1, elements 2, 5); introducing the mat between steel belts each circulating around one of an upper and lower frame part of a continuously operating press (Figure 1, elements 1, 2); and after the step of introducing the mat, curing the mat in the continuously operating press to form an endless wood material board by applying pressure and heat to the mat (Figure 1, element 1; Column 4, lines 37-39), wherein the continuously operating press comprises at least one endless metal mesh

belt configured to circulate with a corresponding one of said steel belts (Figure 1, elements 2, 6, 14), wherein the metal mesh belt and the corresponding steel belt are configured to pass through an insulating tunnel, in a return run, to reduce heat loss by thermal radiation (Figure 1, elements 8, 11, 12, 13; Column 4, lines 29-38; It is interpreted that presses 12 and 13 create an insulating tunnel which reduce heat loss to the steel band.), wherein the metal mesh belt is configured to pass through a heating tunnel, which is separated from the corresponding steel belt (Figure 1, elements 8, 11). Bielfeldt does not show a specific material for his metal mesh belt which has a thermal conductivity considerably higher than that of the corresponding steel belt and having a thermal expansion coefficient approximately equal to that of the corresponding steel belt. Luke et al., hereafter "Luke," show that it is known to carry out a method of molding cellulose articles wherein the cellulose article is carried on a metal mesh belt comprising a material having a thermal conductivity considerably higher than that of steel and having a thermal expansion coefficient approximately equal to that of steel (Column 3, lines 1-4; metal mesh material = copper). Luke and Bielfeldt are combinable because they are concerned with a similar technical field, namely, methods of molding cellulose articles. It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Luke's copper mesh belt for that in Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts. Furthermore, Bielfeldt does not explicitly teach keeping the mesh belt at a temperature at least 40°C higher than that of the steel belt. However, he teaches maintaining distinct temperatures for the steel belts and the mesh belt (Column 3, lines 12-15, 43-45; It is noted that unless the method is taking place in a very hot room, there would easily be a 40°C temperature difference between a 100°C mesh belt and a non-heated steel belt.). Therefore,

absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to keep the mesh belt 40°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material. Finally, Bielfeldt does not teach a specific pressure which is applied on the mat. Reiniger shows that it is known to carry out a method of making a wood-based mat wherein curing of the mat comprises applying a specific pressure to the mat of at least 0.3 N/mm<sup>2</sup> during a first at least 80% of a pressing time (Column 10, lines 62-65). Bielfeldt and Reiniger are combinable because they are concerned with a similar technical field, namely, that of molding operations which yield wood-based composite mats. It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Reiniger's specific pressure in Bielfeldt's molding process in order to obtain the desired thickness and density of the product.

Regarding Claim 4, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, including teaching maintaining a mesh belt at a temperature of 100°C and does not show a heated steel belt (Column 3, lines 13-14; It is noted that unless the method is taking place in a very hot room, there could be a 80°C temperature difference between a 100°C mesh belt and a non-heated steel belt.). Therefore, absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to keep the mesh belt 80°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material.

Regarding Claim 6, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, including a method further comprising the step of spraying one or both face strata of the mat with water (Column 3, lines 6-7), meeting applicant's claim.

Regarding Claim 7, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, including a method further comprising the step of preheating one or both face strata of the mat with steam (Column 3, lines 40-42), meeting applicant's claim.

Regarding Claim 19, Bielfeldt shows that it is known to carry out a method for the continuous manufacture of wood material boards having a textured surface on at least one side (Abstract), comprising forming a particle mat of a wood, treated with a binding agent, onto a continuously moving conveyor belt (Figure 1, elements 2, 5); introducing the mat between steel belts each circulating around one of an upper and lower frame part of a continuously operating press (Figure 1, elements 1, 2); and after the step of introducing the mat, curing the mat in the continuously operating press to form an endless wood material board by applying pressure and heat to the mat (Figure 1, element 1; Column 4, lines 37-39), wherein the continuously operating press comprises at least one endless metal mesh belt configured to circulate with a corresponding one of said steel belts and to travel with the mat (Figure 1, elements 2, 6, 14), wherein the metal mesh belt and the corresponding steel belt are configured to pass simultaneously through an insulating tunnel, in a return run, to reduce heat loss by thermal radiation (Figure 1, elements 8, 11, 12, 13; Column 4, lines 29-38; It is interpreted that presses 12 and 13 create an insulating tunnel which reduce heat loss to the steel band.). Bielfeldt does not show a specific material for his metal mesh belt which has a thermal conductivity considerably higher than that of the corresponding steel belt. Luke shows that it is known to carry out a method of molding cellulose articles wherein the cellulose article is carried on a metal mesh belt comprising a material having a thermal conductivity considerably higher than that of steel and having a thermal expansion coefficient approximately equal to that of steel (Column 3, lines 1-4; metal mesh material =

copper). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Luke's copper mesh belt for that in Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 20, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, but he does not show a specific material for his metal mesh belt which has a thermal expansion coefficient approximately equal to that of the corresponding steel belt. Luke shows that it is known to carry out a method of molding cellulose articles wherein the cellulose article is carried on a metal mesh belt comprising a material having a thermal conductivity considerably higher than that of steel and having a thermal expansion coefficient approximately equal to that of steel (Column 3, lines 1-4; metal mesh material = copper). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Luke's copper mesh belt for that in Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 21, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, including a method wherein the metal mesh belt is configured to pass through a heating tunnel, which is separated from the corresponding steel belt (Figure 1, elements 8, 11), meeting applicant's claim.

Regarding Claim 22, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 21 above, but he does not explicitly teach keeping the mesh belt at a temperature at least 40°C higher than that of the steel belt. However, he teaches maintaining distinct temperatures for the steel belts and the mesh belt (Column 3, lines 12-15, 43-45; It is noted that unless the method is taking place in a very hot room, there would easily be a 40°C temperature

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difference between a 100°C mesh belt and a non-heated steel belt.). Therefore, absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to keep the mesh belt 40°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material.

Regarding Claim 23, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 22 above, including teaching maintaining a mesh belt at a temperature of 100°C and does not show a heated steel belt (Column 3, lines 13-14; It is noted that unless the method is taking place in a very hot room, there could be a 80°C temperature difference between a 100°C mesh belt and a non-heated steel belt.). Therefore, absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to keep the mesh belt 80°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material.

Regarding Claim 26, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, but he does not teach a specific pressure which is applied on the mat. Reiniger shows that it is known to carry out a method of making a wood-based mat wherein curing of the mat comprises applying a specific pressure to the mat of at least 0.3 N/mm<sup>2</sup> during a first at least 80% of a pressing time (Column 10, lines 62-65). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Reiniger's specific pressure in Bielfeldt's molding process in order to obtain the desired thickness and density of the product.

Regarding Claim 31, Bielfeldt shows that it is known to carry out a method for the continuous manufacture of wood material boards having a textured surface on at least one side

(Abstract), comprising forming a particle mat of a wood, treated with a binding agent, onto a continuously moving conveyor belt (Figure 1, elements 2, 5); introducing the mat between steel belts each circulating around one of an upper and lower frame part of a continuously operating press (Figure 1, elements 1, 2); and after the step of introducing the mat, curing the mat in the continuously operating press to form an endless wood material board by applying pressure and heat to the mat (Figure 1, element 1; Column 4, lines 37-39), wherein the continuously operating press comprises at least one endless metal mesh belt configured to circulate with a corresponding one of said steel belts and to travel with the mat (Figure 1, elements 2, 6, 14), wherein the metal mesh belt texturizes a surface of the mat (Column 4, lines 51-58). Bielfeldt does not show a specific material for his metal mesh belt which has a thermal conductivity considerably higher than that of the corresponding steel belt and a thermal expansion coefficient within the range of steel. Luke shows that it is known to carry out a method of molding cellulose articles wherein the cellulose article is carried on a metal mesh belt comprising a material having a thermal conductivity considerably higher than that of steel and having a thermal expansion coefficient approximately equal to that of steel (Column 3, lines 1-4; metal mesh material = copper). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Luke's copper mesh belt for that in Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 32, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, but he does not show a specific material for his metal mesh belt. Luke shows that it is known to carry out a method of molding cellulose articles wherein the cellulose article is carried on a metal mesh belt comprising a material having a thermal expansion coefficient

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approximately 16.5x10-6/C (Column 3, lines 1-4; metal mesh material = copper). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Luke's copper mesh belt for that in Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 33, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, including a method wherein the metal mesh belt and the corresponding steel belt are configured to pass through an insulating tunnel, in a return run, to reduce heat loss by thermal radiation (Figure 1, elements 8, 11, 12, 13; Column 4, lines 29-38; It is interpreted that presses 12 and 13 create an insulating tunnel which reduce heat loss to the steel band.), meeting applicant's claim.

Regarding Claim 34, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, including a method wherein the metal mesh belt is configured to pass through a heating tunnel, which is separated from the corresponding steel belt (Figure 1, elements 8, 11), meeting applicant's claim.

Regarding Claim 35, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 34 above, but he does not explicitly teach keeping the mesh belt at a temperature at least 40°C higher than that of the steel belt. However, he teaches maintaining distinct temperatures for the steel belts and the mesh belt (Column 3, lines 12-15, 43-45; It is noted that unless the method is taking place in a very hot room, there would easily be a 40°C temperature difference between a 100°C mesh belt and a non-heated steel belt.). Therefore, absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at

the time the invention was made to keep the mesh belt 40°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material.

Regarding Claim 36, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 35 above, including teaching maintaining a mesh belt at a temperature of 100°C and does not show a heated steel belt (Column 3, lines 13-14; It is noted that unless the method is taking place in a very hot room, there could be a 80°C temperature difference between a 100°C mesh belt and a non-heated steel belt.). Therefore, absent unexpected results, it would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to keep the mesh belt 80°C warmer than the steel belt in order to promote optimal processing conditions for a specific molding material.

Regarding Claim 39, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, but he does not teach a specific pressure which is applied on the mat. Reiniger shows that it is known to carry out a method of making a wood-based mat wherein curing of the mat comprises applying a specific pressure to the mat of at least 0.3 N/mm<sup>2</sup> during a first at least 80% of a pressing time (Column 10, lines 62-65). Bielfeldt and Reiniger are combinable because they are concerned with a similar technical field, namely, that of molding operations which yield wood-based composite mats. It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Reiniger's specific pressure in Bielfeldt's molding process in order to obtain the desired thickness and density of the product.

Claims 2, 3, 5, 18, 24-25, 27-28, 30, 37-38, 40-41, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bielfeldt, Beck, and Reiniger as applied to claim 1 above, and further in view of Bielfeldt (U.S. Patent 5,762,980), hereafter "Bielfeldt '980".

Regarding Claim 2, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show measuring density. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step of measuring a density profile of the formed endless wood material board, after the step of curing the mat, wherein the heating mechanism is configured to heat the metal mesh belt to a temperature profile that directly depends on said density profile (Column 7, lines 18-31). Bielfeldt '980 and Bielfeldt are combinable because they are concerned with a similar technical field, namely, that of molding methods which yield wood-based mats. It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's measuring step during Bielfeldt's, Beck's and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 3, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show adjusting the density profile. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step adjusting a symmetrical or asymmetrical raw density profile in the formed endless wood material board, by adjusting a heat input into the side of the mat which is to be textured (Column 7, lines 18-42). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's adjusting step during Bielfeldt's, Beck's, and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 5, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show a specific moisture content of the mat. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat wherein said step of introducing the mat comprises introducing the mat with a moisture content of less than or equal to approximately 9 weight percent (Column 4, lines 1-6). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Bielfeldt '980's moisture level for the mat in Bielfeldt's, Beck's, and Reiniger's molding process in order to obtain a desired moisture level in the final product.

Regarding Claim 18, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, including a method further comprising cleaning the metal mesh belt (Column 7, lines 50-52), meeting applicant's claim.

Regarding Claim 24, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 21 above, but he does not show measuring density. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step of measuring a density profile of the formed endless wood material board (Column 7, lines 18-31). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's measuring step during Bielfeldt's, Beck's and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 25, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 24 above, but he does not show measuring density. Bielfeldt '980 shows that it is known to carry out a method wherein the heating mechanism is configured to heat the metal mesh belt to a temperature profile that directly depends on said density profile (Column 7, lines

18-31). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's measuring step during Bielfeldt's, Beck's and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 27, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, but he does not show adjusting the density profile. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step adjusting a symmetrical or asymmetrical raw density profile in the formed endless wood material board, by adjusting a heat input into the side of the mat which is to be textured (Column 7, lines 18-42). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's adjusting step during Bielfeldt's, Beck's, and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 28, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, but he does not show a specific moisture content of the mat. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat wherein said step of introducing the mat comprises introducing the mat with a moisture content of less than or equal to approximately 9 weight percent (Column 4, lines 1-6). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Bielfeldt '980's moisture level for the mat in Bielfeldt's, Beck's, and Reiniger's molding process in order to obtain a desired moisture level in the final product.

Regarding Claim 30, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, including a method further comprising cleaning the metal mesh belt (Column 7, lines 50-52), meeting applicant's claim.

Regarding Claim 37, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 34 above, but he does not show measuring density. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step of measuring a density profile of the formed endless wood material board (Column 7, lines 18-31). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's measuring step during Bielfeldt's, Beck's and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 38, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 37 above, but he does not show measuring density. Bielfeldt '980 shows that it is known to carry out a method wherein the heating mechanism is configured to heat the metal mesh belt to a temperature profile that directly depends on said density profile (Column 7, lines 18-31). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's measuring step during Bielfeldt's, Beck's and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 40, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, but he does not show adjusting the density profile. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat further comprising the step adjusting a symmetrical or asymmetrical raw density profile in the formed endless wood material board, by adjusting a heat input into the side of the mat which is to be textured (Column 7, lines 18-42). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to follow Bielfeldt '980's adjusting step during Bielfeldt's, Beck's, and Reiniger's molding process in order to control the quality of the end product.

Regarding Claim 41, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, but he does not show a specific moisture content of the mat. Bielfeldt '980 shows that it is known to carry out a method of making a wood-based mat wherein said step of introducing the mat comprises introducing the mat with a moisture content of less than or equal to approximately 9 weight percent (Column 4, lines 1-6). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use Bielfeldt '980's moisture level for the mat in Bielfeldt's, Beck's, and Reiniger's molding process in order to obtain a desired moisture level in the final product.

Regarding Claim 43, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, including a method further comprising cleaning the metal mesh belt (Column 7, lines 50-52), meeting applicant's claim.

Claims 17, 29, and 42 rejected under 35 U.S.C. 103(a) as being unpatentable over Bielfeldt, Luke, and Reiniger, further in view of the Background section of the instant specification.

Regarding Claim 17, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 1 above, but he does not show using a metal mesh belt that comprises at least two materials. The instant specification's background section states that it is known to use a high alloy stainless steel for a mesh belt material (Page 4, lines 1-2). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use a mesh belt with at least two materials during Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 29, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 19 above, but he does not show using a metal mesh belt that comprises at least two materials. The instant specification's background section states that it is known to use a high alloy stainless steel for a mesh belt material (Page 4, lines 1-2). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use a mesh belt with at least two materials during Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

Regarding Claim 42, Bielfeldt shows the process as claimed as discussed in the rejection of Claim 31 above, but he does not show using a metal mesh belt that comprises at least two materials. The instant specification's background section states that it is known to use a high alloy stainless steel for a mesh belt material (Page 4, lines 1-2). It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to use a mesh belt with at least two materials during Bielfeldt's molding process in order to satisfy the desired relative thermal properties of the two belts.

#### *Response to Arguments*

Applicant's arguments, see the paper filed 22 March 2006, with respect to claims 1-7 have been fully considered and are persuasive. The rejection of claims 1-7 under Bielfeldt, Beck, Jr., and Reiniger has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Bielfeldt, Luke, and Reiniger.

With regard to applicant's new claim 19 which includes the limitation "wherein the metal mesh belt and the corresponding steel belt are configured to pass simultaneously through an

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insulating tunnel, in a return run, to reduce heat loss by thermal radiation", it is interpreted by the examiner that Bielfeldt's steel and mesh belts simultaneously pass through an insulating tunnel in a forward, albeit "return" run. It is noted that depending on where the point of reference is, any point downstream of the reference point can be interpreted as a point on the "return" trip to the reference point.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Monica A. Huson whose telephone number is 571-272-1198. The examiner can normally be reached on Monday-Friday 7:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Colaianni can be reached on 571-272-1196. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Monica A Huson  
April 3, 2006

  
MICHAEL P. COLAIANNI  
SUPERVISORY PATENT EXAMINER